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## In the claims

Please amend the claims by replacing all prior versions of the claims with the listing of claims below pursuant to 37 C.F.R. §1.1-21.

## 1-55. (Cancelled)

- 56. (Currently Amended) An isolated nucleic acid molecule that encodes a PPO polypeptide of lettuce, tobacco or pineapple wherein said nucleic acid molecule comprises a nucleotide sequence selected from the group consisting of comprising nucleotides in:
  - (i) a nucleotide sequence selected from group consisting of: SEQ ID NOS: 9, 11, 13, 15, 17, 19, 25, 27, and set forth in SEQ ID NO: 29;
  - (ii) a nucleotide sequence that encodes an amino acid sequence selected from the group consisting of: SEQ ID NOS: 10, 12, 14, 16, 18, 20, 26, 28, and set forth in SEQ ID NO: 30;
  - (iii) a nucleotide sequence that encodes a copper-binding
     site of an amino acid sequence of (ii); and or
  - (iv) a nucleotide sequence that is complementary to (i) or
    (ii) or (iii).
- 57. (New) The isolated nucleic acid molecule of claim 56, wherein the nucleotides are in:
  - (i) a nucleotide sequence set forth in SEQ ID NO: 29;
  - (ii) a nucleotide sequence that encodes an amino acid sequence set forth in SEQ ID NO: 30; or
  - (iii) a nucleotide sequence that is complementary to (i) or (ii) or (iii).

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- 58. (New) A recombinant vector comprising a nucleic acid molecule comprising nucleotides in:
  - (i) a nucleotide sequence set forth in SEQ ID NO: 29;
  - (ii) a nucleotide sequence that encodes an amino acid sequence set forth in SEQ ID NO: 30;
  - (iii) a nucleotide sequence that encodes a copper-binding
     site of an amino acid sequence of (ii); or
  - (iv) a nucleotide sequence that is complementary to (i) or
    (ii) or (iii)

within the vector molecule.

- 59. (New) The recombinant vector of claim 58 wherein the vector is a plasmid expression vector.
- 60. (New) The recombinant vector of claim 59 wherein the plasmid expression vector is Bluescript SK+.
- 61. (New) The recombinant vector of claim 58, wherein the vector is a binary vector suitable for introducing into a plant cell, tissue or organ.
- 62. (New) The recombinant vector of claim 58, wherein the vector is capable of being replicated and the PPO-encoding nucleic acid is capable of being transcribed and translated in a unicellular organism or in a plant.
- 63. (New) A transformed plant, plant part, progeny or propagule thereof, comprising a non-endogenous nucleic acid molecule that encodes a PPO polypeptide of lettuce comprising nucleotides in:
  - (i) a nucleotide sequence set forth in SEQ ID NO: 29;
  - (ii) a nucleotide sequence that encodes an amino acid sequence set forth in SEQ ID NO: 30;

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- (iii) a nucleotide sequence that encodes a copper-binding site of an amino acid sequence of (ii); or
- (iv) a nucleotide sequence that is complementary to (i) or
  (ii) or (iii).
- 64. (New) The transformed plant of claim 63, wherein the nucleotides in the nucleic acid molecule are in:
  - (i) a nucleotide sequence set forth in SEQ ID NO: 29;
  - (ii) a nucleotide sequence that encodes an amino acid sequence set forth in SEQ ID NO: 30; or
  - (iii) a nucleotide sequence that is complementary to (i) or (ii) or (iii).
- 65. (New) The transformed plant, plant part, progeny or propagule thereof of claim 63, wherein the nucleic acid molecule is part of a recombinant vector.
- 66. (New) The transformed plant, plant part, progeny or propagule thereof of claim 64, wherein the plant is lettuce and the nucleic acid molecule is at least expressed in the lettuce leaf.
- 67. (New) A process of making the transformed plant, plant part, progeny or propagule thereof of claim 63, comprising introducing into a plant, cell, tissue or organ thereof a nucleic acid molecule encoding a PPO polypeptide of lettuce comprising nucleotides in:
  - (i) a nucleotide sequence set forth in SEQ ID NO: 29;
  - (ii) a nucleotide sequence that encodes an amino acid sequence set forth in SEQ ID NO: 30;
  - (iii) a nucleotide sequence that encodes a copper-binding
     site of the amino acid sequence of (ii); or
    - (iv) a nucleotide sequence that is complementary to (i) or

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(ii) or (iii).

- 68. (New) A process of making a lettuce plant, cell, tissue or organ thereof, comprising introducing a nucleic acid molecule which hybridizes to a nucleic acid molecule in the lettuce plant, cell, tissue or organ thereof selected from the group consisting of:
  - (i) a nucleotide sequence set forth in SEQ ID NO: 29;
  - (ii) a nucleotide sequence that encodes an amino acid sequence set forth in SEQ ID NO: 30;
  - (iii) a nucleotide sequence that encodes a copper-binding site of the amino acid sequence in (ii); and
    - (iv) a nucleotide sequence that is complementary to (i) or (ii) or (iii).
- 69. (New) The process of claim 68 further comprising expressing the introduced nucleic acid molecule to produce sense or antisense RNA therefrom.
- 70. (New) The process of claim 68, wherein the nucleic acid molecule is introduced into the plant, cell, tissue or organ thereof by means of Agrobacterium-mediated transformation.
- 71. (New) The process of claim 69, wherein the nucleic acid molecule is introduced into the plant, cell, tissue or organ thereof by means of Agrobacterium-mediated transformation.
- 72. (New) The process of claim 68, wherein the nucleic acid molecule is introduced into the plant, cell, tissue or organ thereof by means of microparticle bombardment using a nucleic acid-coated microprojectile.

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- 73. (New) The process of claim 69, wherein the nucleic acid molecule is introduced into the plant, cell, tissue or organ thereof by means of microparticle bombardment using a nucleic acid-coated microprojectile.
- 74. (New) A method of increasing the level of PPO activity in a plant, cell, tissue or organ thereof, the method comprising:
  - (a) introducing into the plant, cell, tissue or organ thereof a nucleic acid molecule encoding a PPO polypeptide of lettuce comprising nucleotides in:
    - (i) a nucleotide sequence set forth in SEQ ID NO: 29;
    - (ii) a nucleotide sequence that encodes an amino acid sequence set forth in SEQ ID NO: 30;
    - (iii) a nucleotide sequence that encodes a copper-binding
       site of the amino acid sequence of (ii); or
      - (iv) a nucleotide sequence that is complementary to (i) or (ii) or (iii), and
  - (b) expressing the nucleic acid molecule to produce an enzymatically-active PPO polypeptide.
- 75. (New) A method of decreasing the level of PPO activity in a lettuce plant, cell, tissue or organ thereof, the method comprising introducing a nucleic acid molecule which hybridizes to a nucleic acid molecule in the lettuce plant, cell, tissue or organ thereof, comprising nucleotides in:
  - (i) a nucleotide sequence set forth in SEQ ID NO: 29;
  - (ii) a nucleotide sequence that encodes an amino acid sequence set forth in SEQ ID NO: 30;
  - (iii) a nucleotide sequence that encodes a copper-binding
     site of the amino acid sequence in (ii); or
    - (iv) a nucleotide sequence that is complementary to (i) or (ii) or (iii).